

Fig. 1B

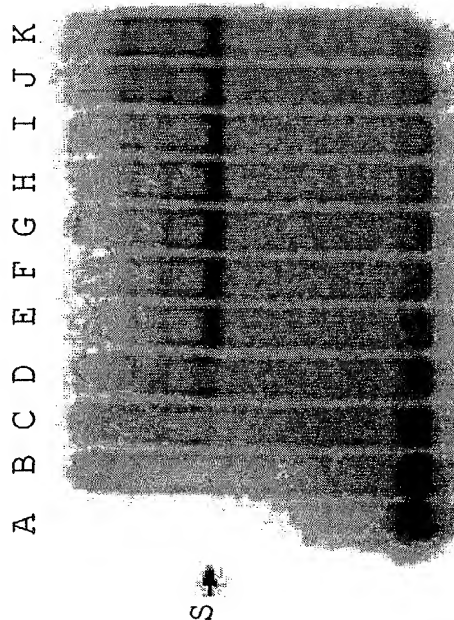


Fig. 1A

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702220-004E660

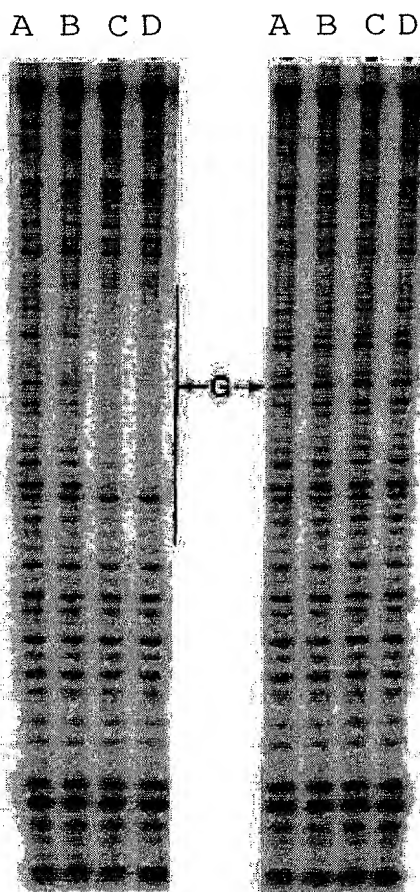


Fig. 1C

Fig. 1D

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FIG. 1E

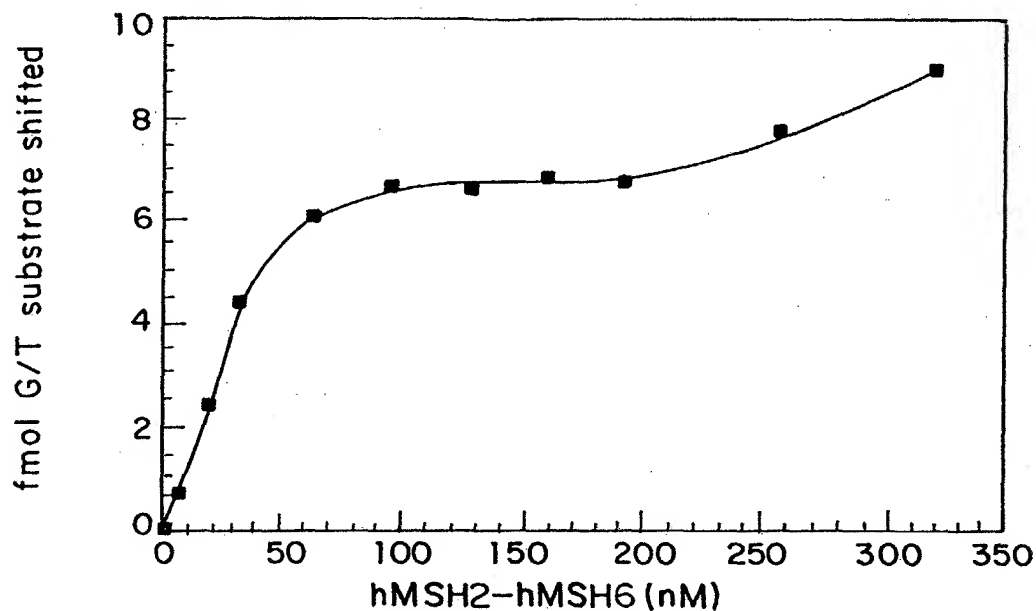
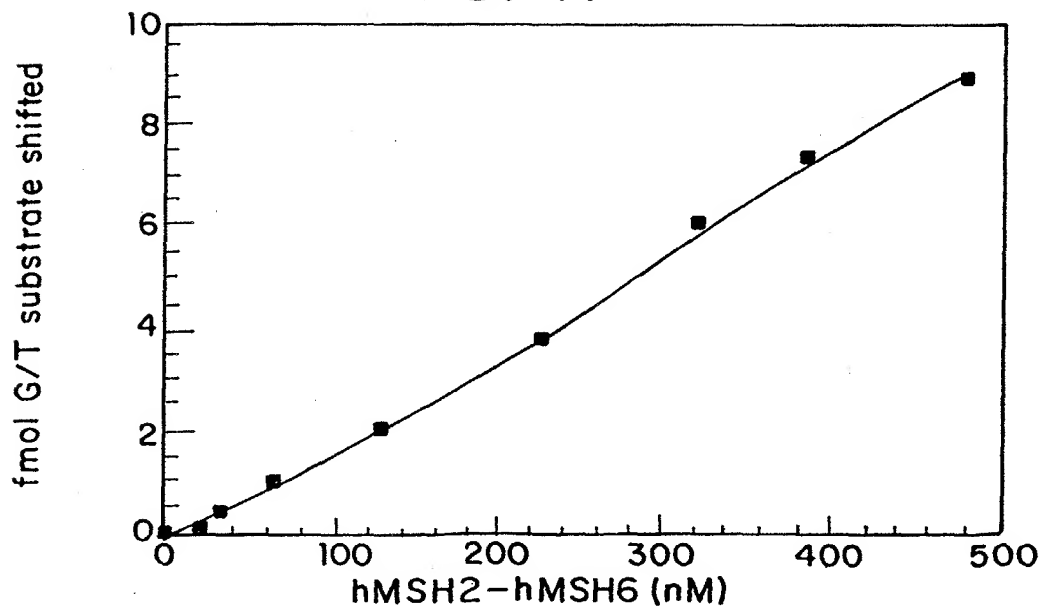


FIG. 1F



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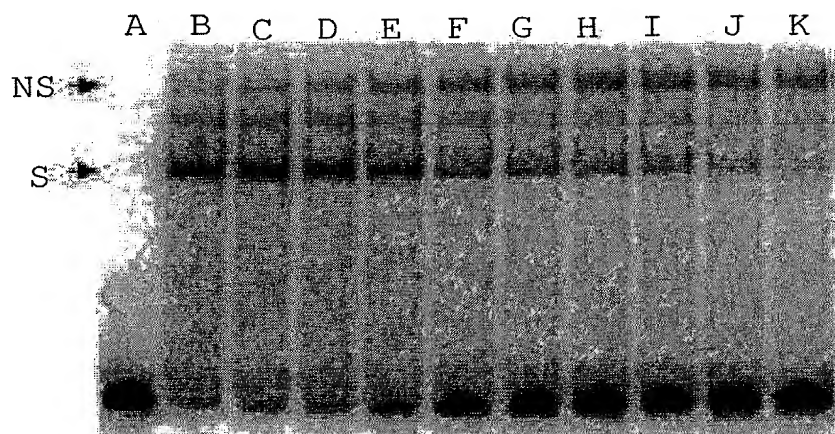


Fig. 2A

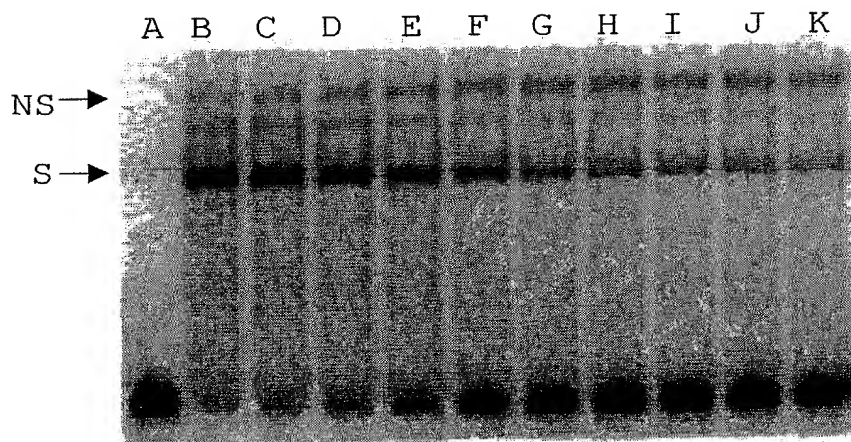


Fig. 2B

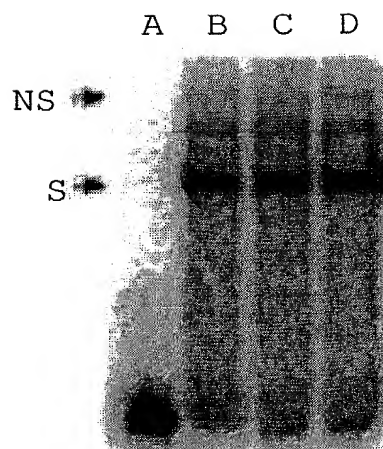


Fig. 2C

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FIG. 2D

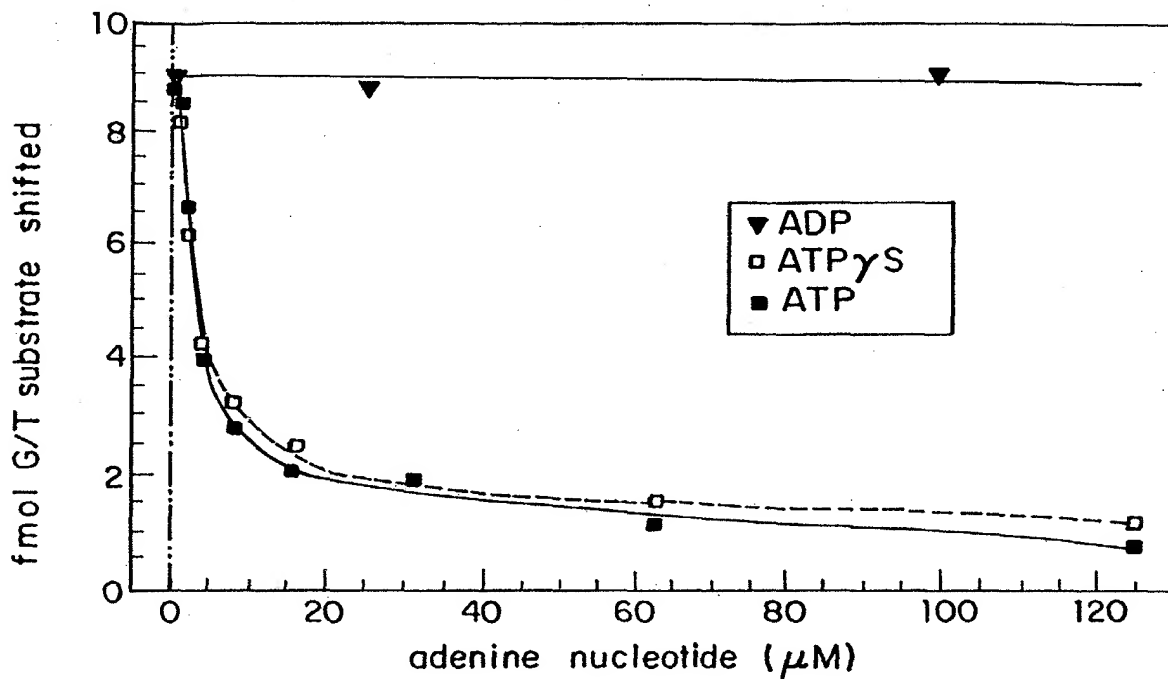
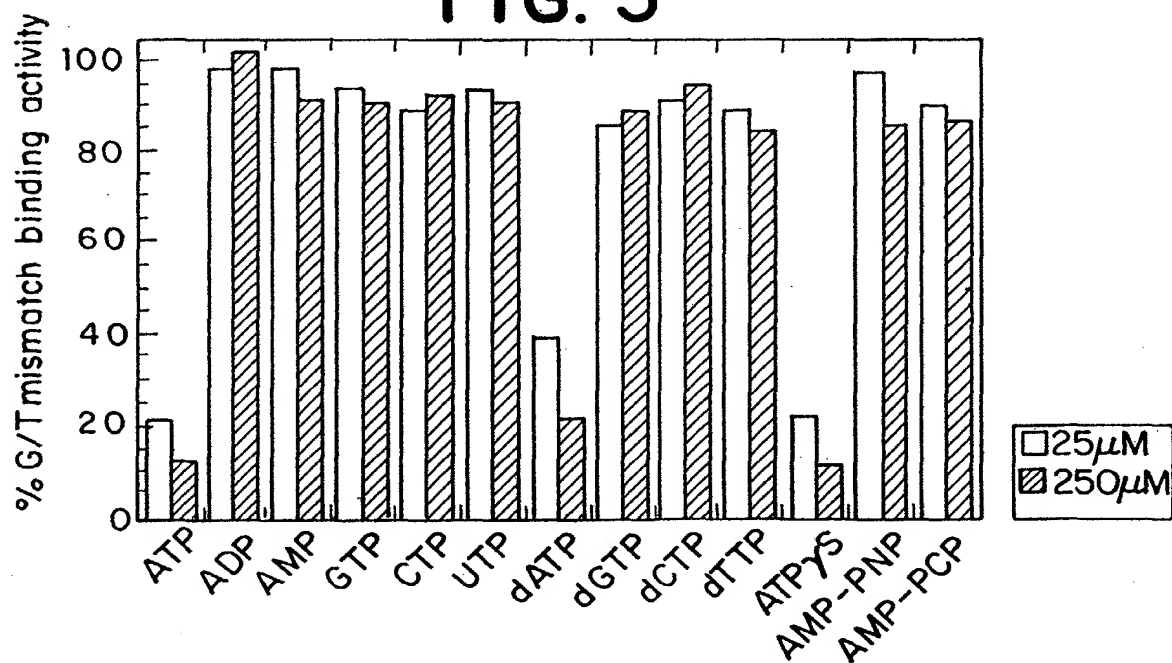


FIG. 3



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FIG. 4A

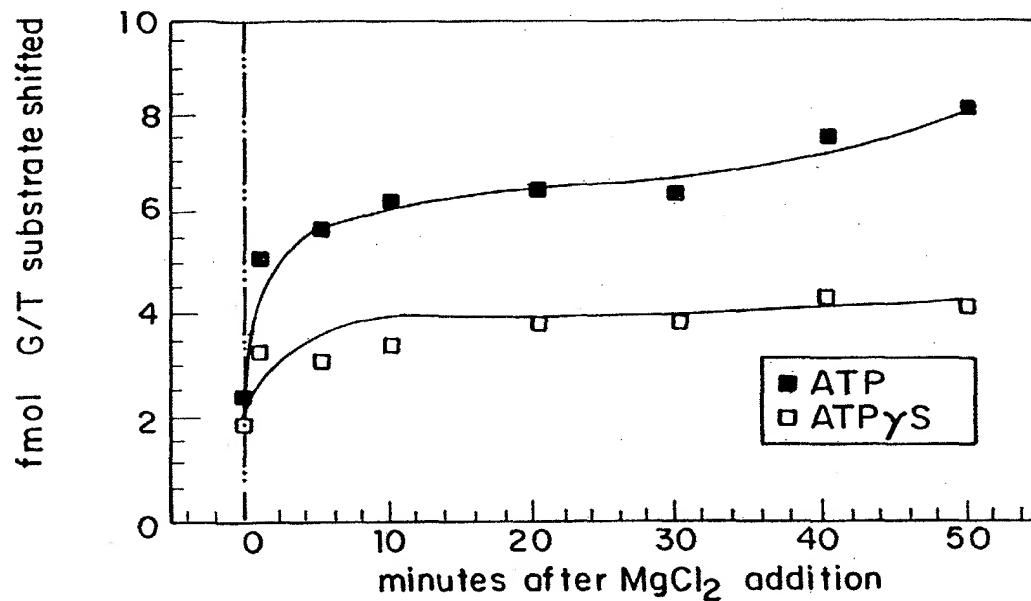
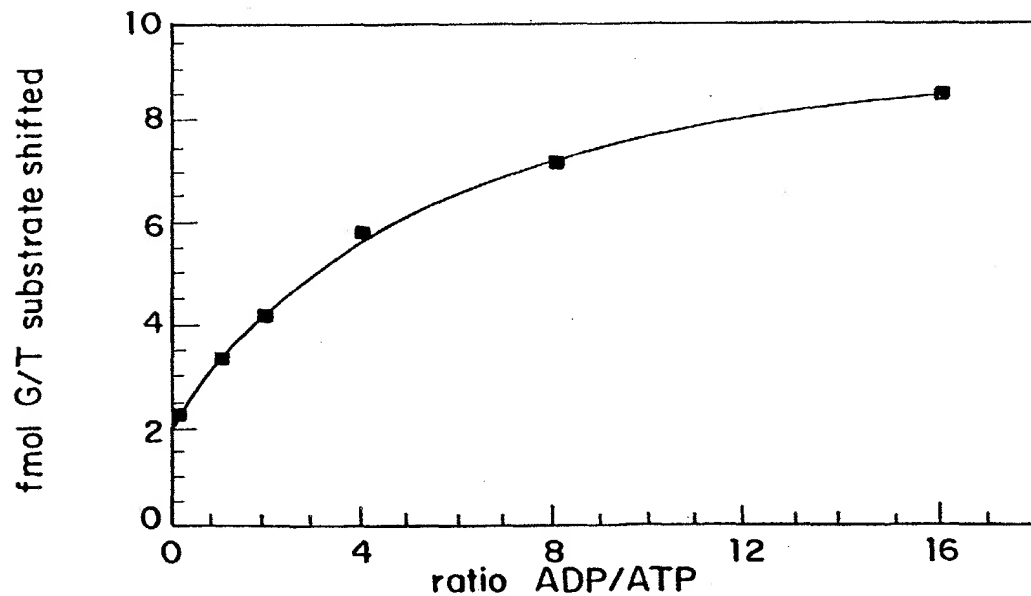


FIG. 4B



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FIG. 5A

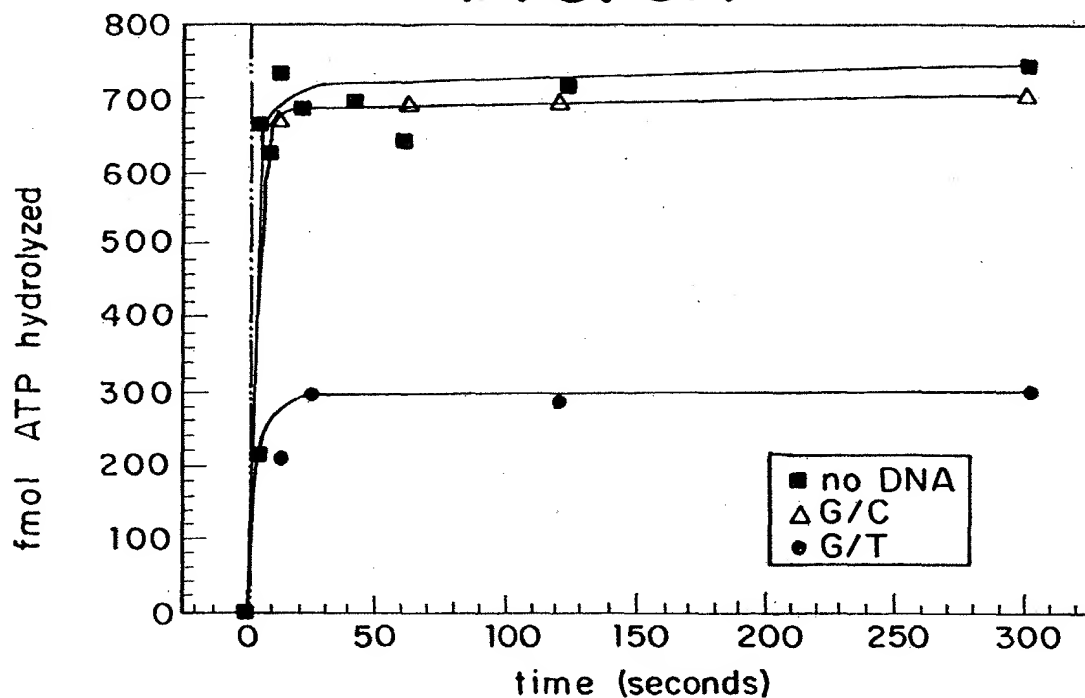
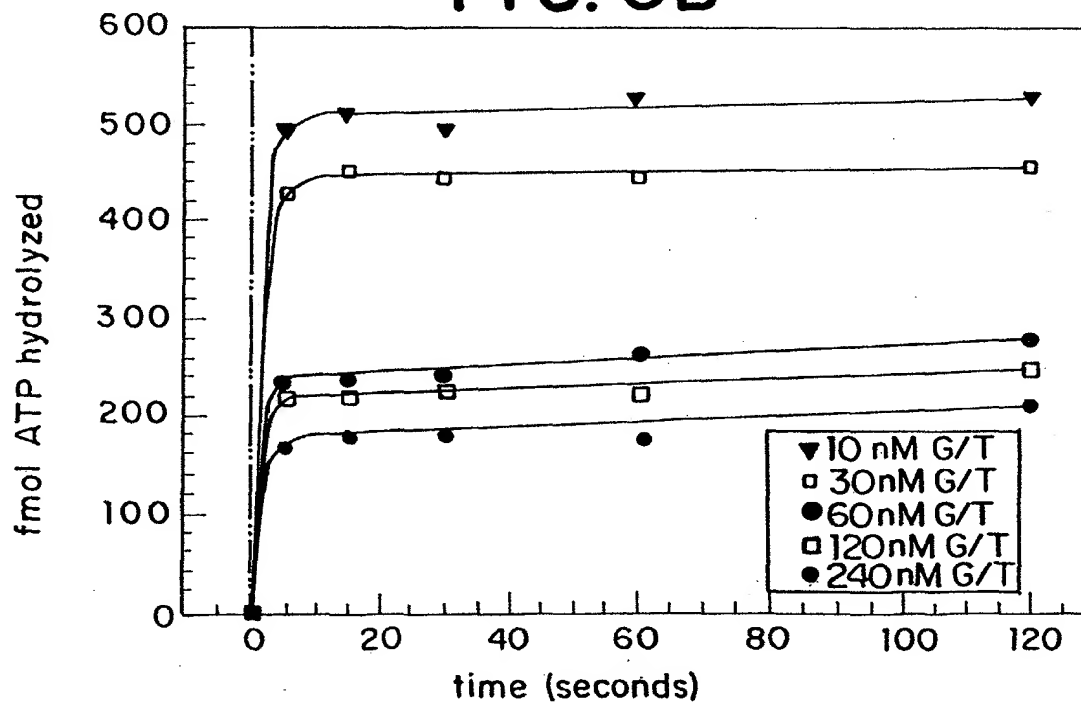


FIG. 5B



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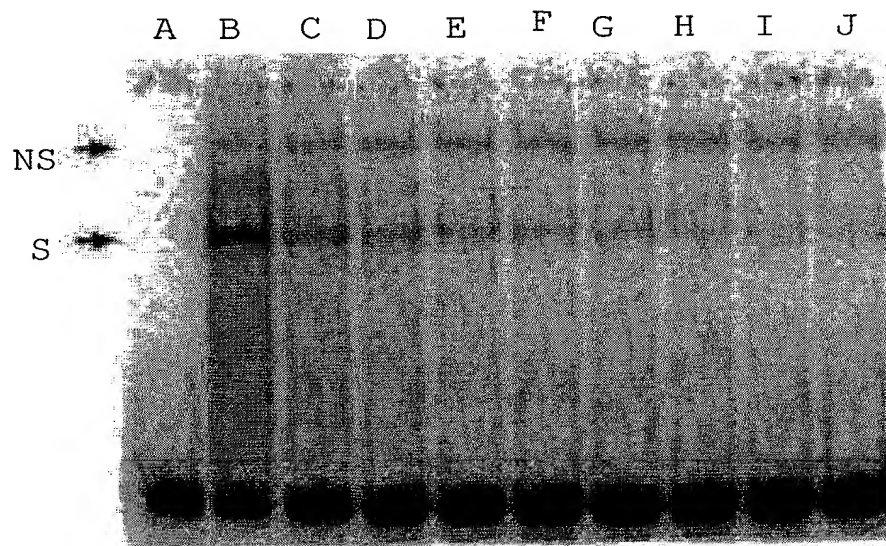


Fig. 6A

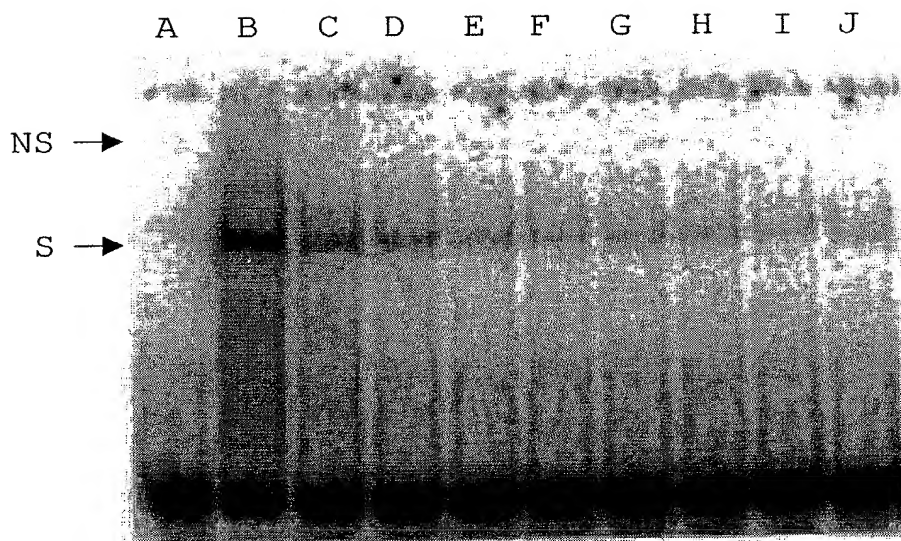


Fig. 6B

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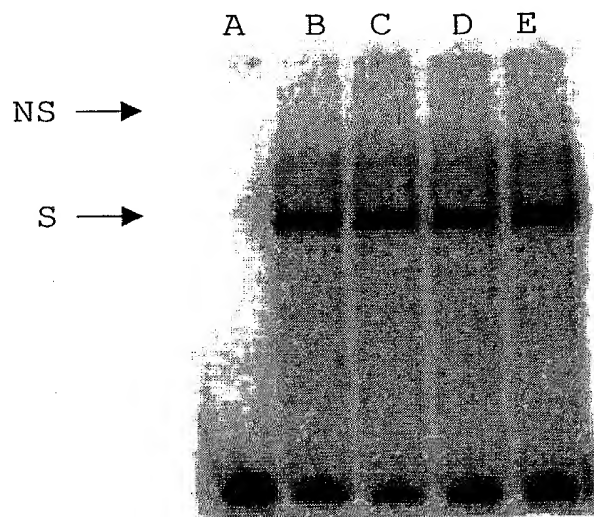


Fig. 6C

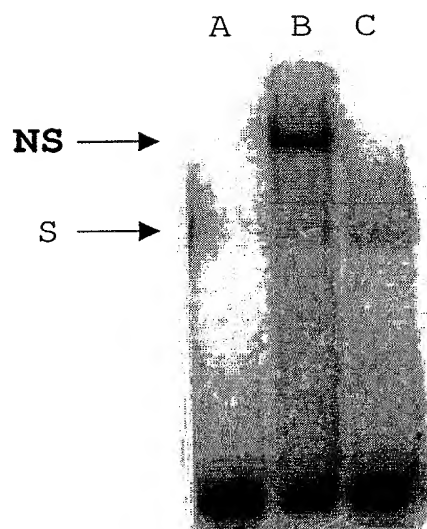


Fig. 6D

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FIG. 7

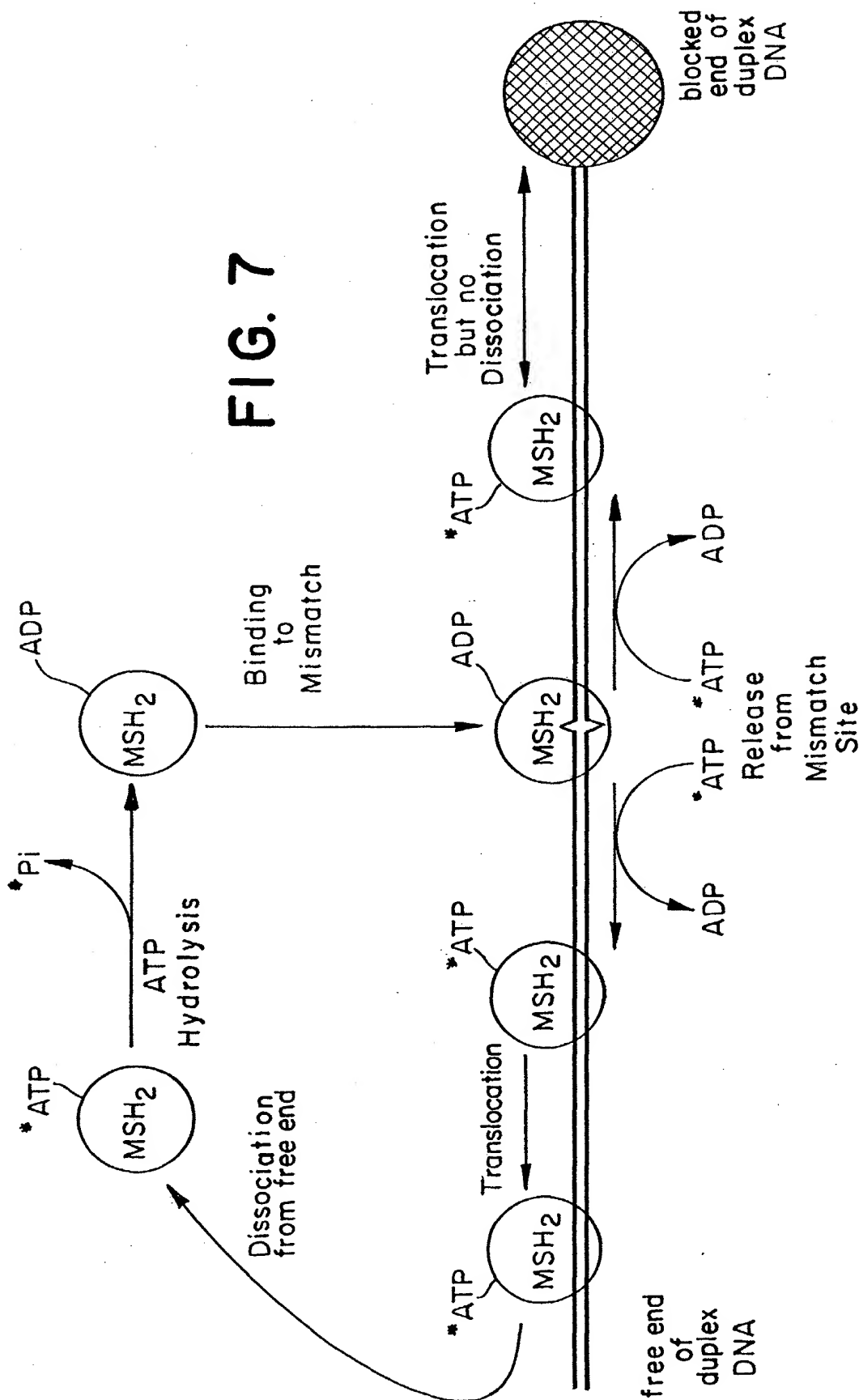


Fig. 8A

CCTGGTACCT CGAGCGATCA AGCTTGGTGG AATTCGCCG

Fig. 8B

CCTGGTACCT CGAGCGATCG AGCTTGGTGG AATTCGCCG

Fig. 8C

ACTATAGGGC GAATTGGGTA CCGCTGAATT GCACCGAGCT CGATCCTCGA
TGATCCTAAG CTAAGCTTCA GCTCCAGCTT T

Fig. 8D

ACTATAGGGC GAATTGGGTA CCGCTGAATT GCACCGAGCT TGATCCTCGA
TGATCCTAAG CTAAGCTTCA GCTCCAGCTT T

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Fig. 10C

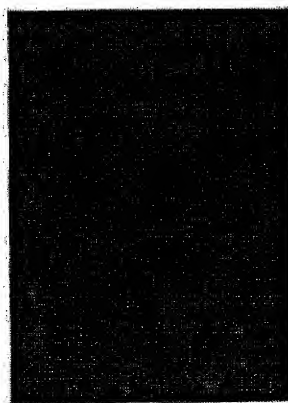


Fig. 10F

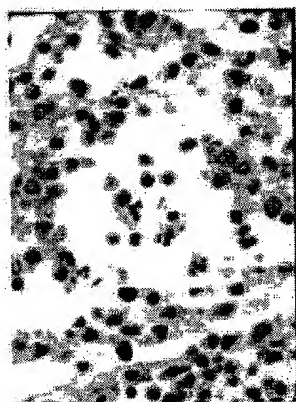


Fig. 10B

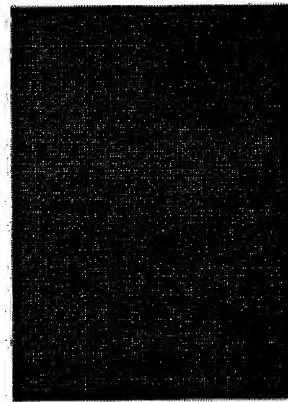


Fig. 10E

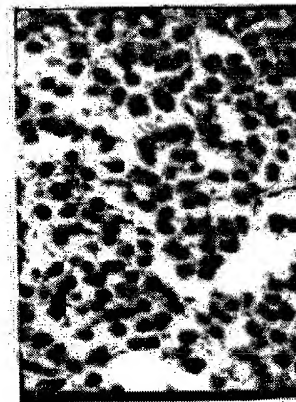


Fig. 10A

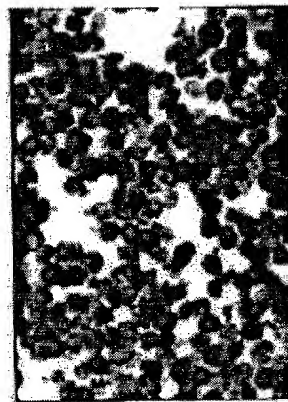


Fig. 10D

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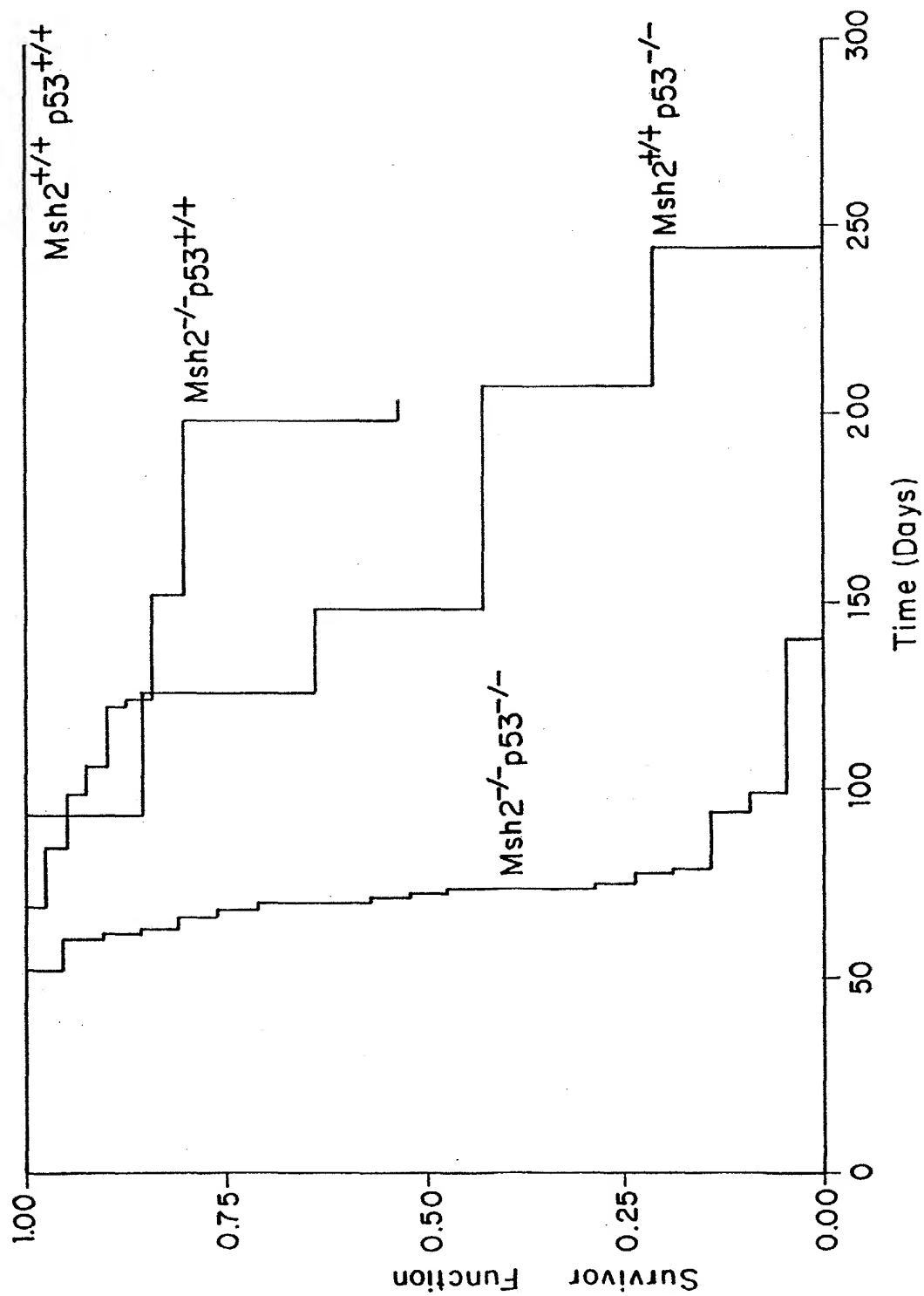


FIG. 11

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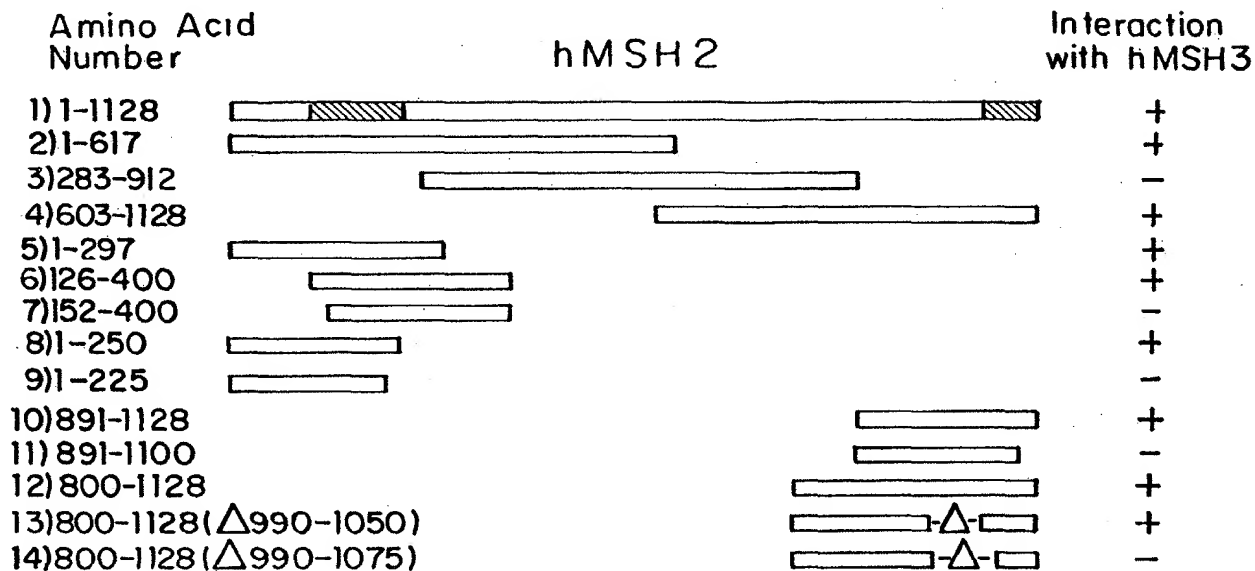


FIG. 12

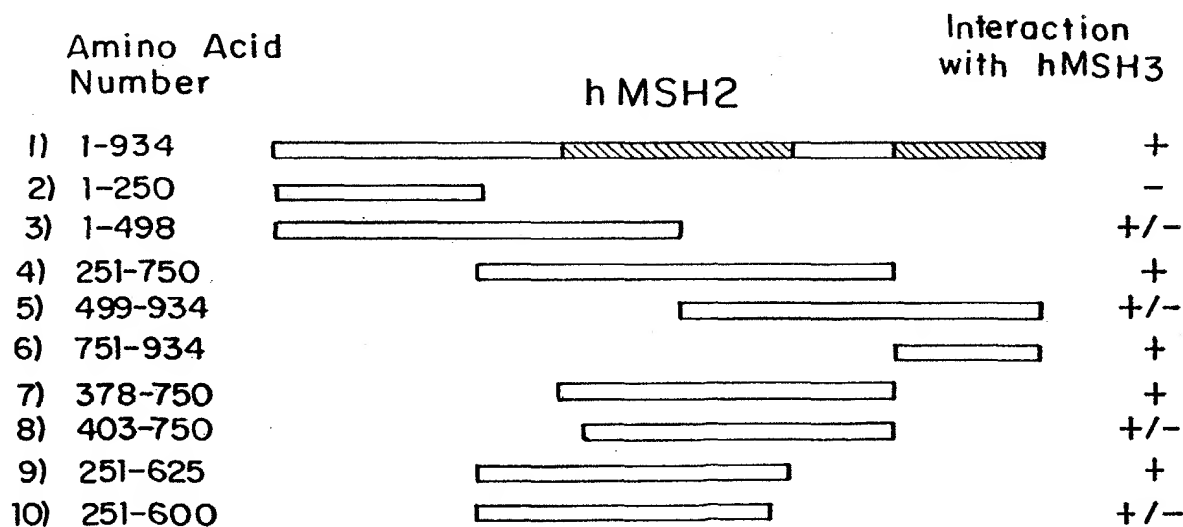
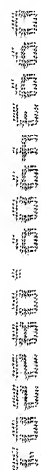


FIG. 13



Amino Acid
Number:

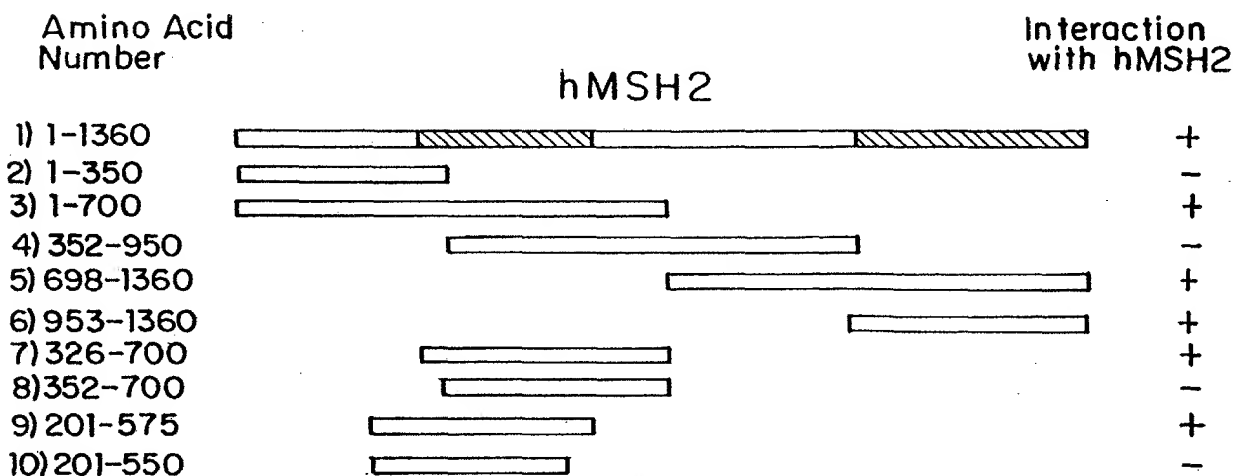


FIG. 15

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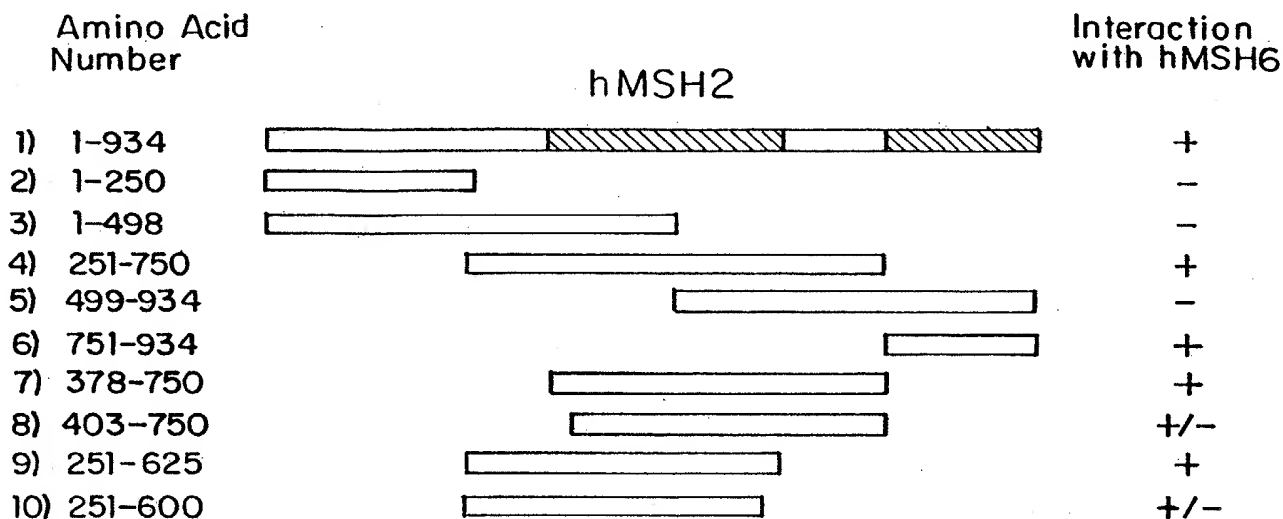


FIG. 16

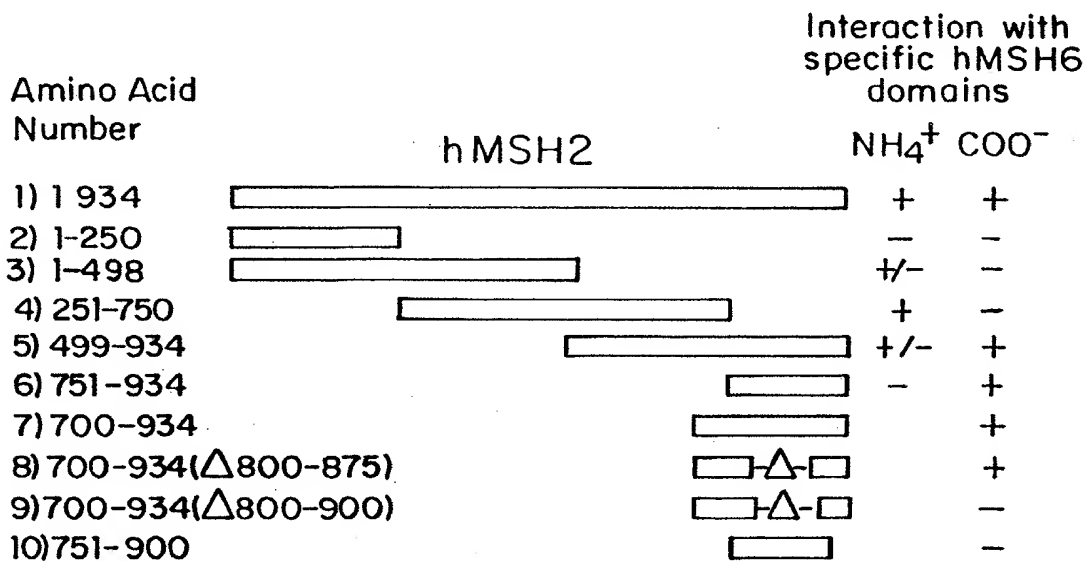


FIG. 17

FIG. 16

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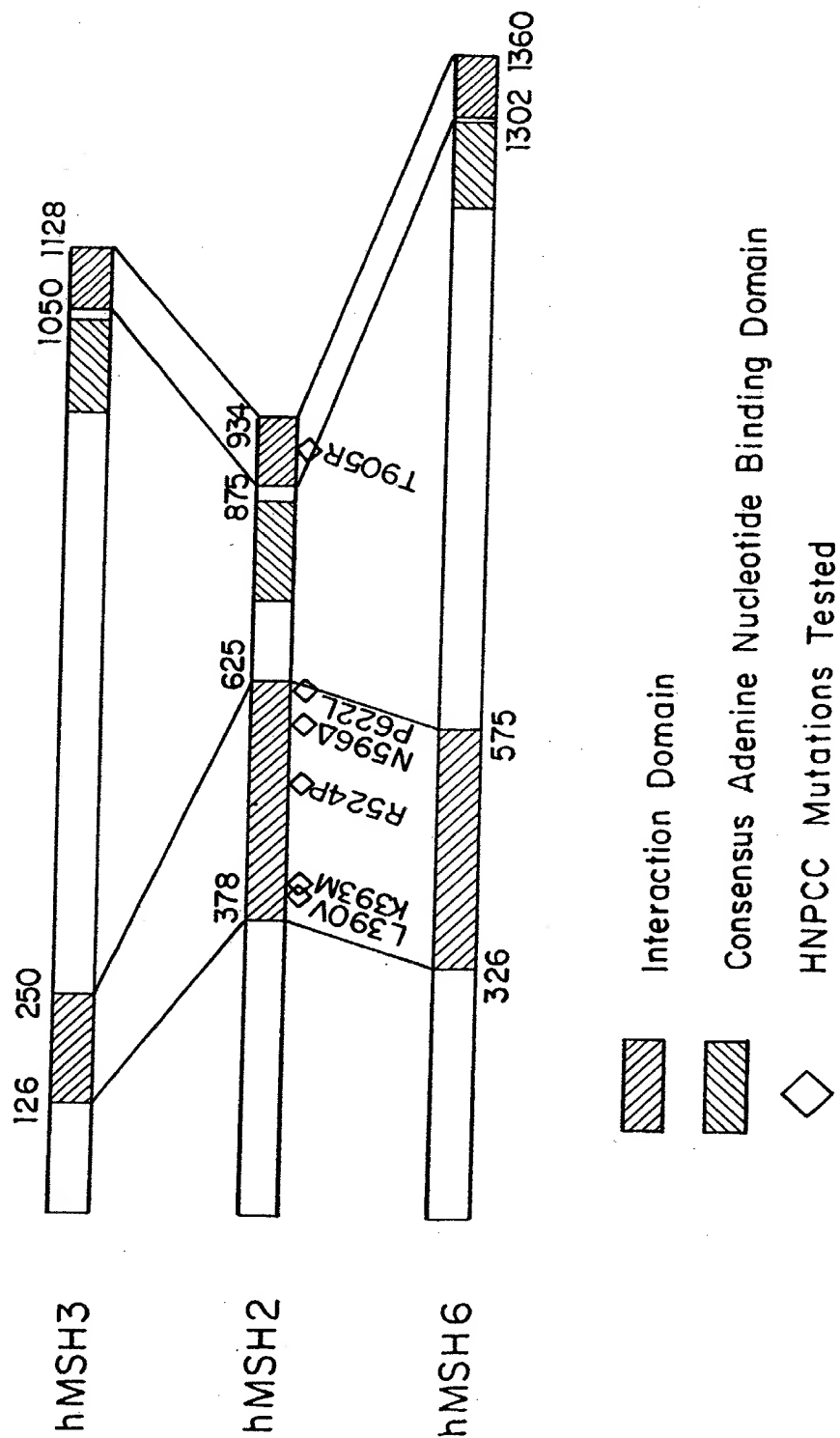


FIG. 18

Fig. 19A

121 Glu His Arg Glu Glu Pro Lys Arg Pro Glu Ile Ile Phe Leu Pro Ser
 462 GAG CAC AGA GAG CCT AAA GAG CCT GAA ATC ATA TTT TTG CCA AGT

136 Val Asp Phe Gly Leu Glu Ile Ser Lys Gln Arg Leu Leu Ser Gly
 507 GTG GAT TTT GGT CTG GAG ATA AGC AAA CAA CGC CTC CTT TCT GGA

151 Asn Tyr Ser Phe Ile Pro Asp Ala Met Thr Ala Thr Glu Lys Ile
 552 AAC TAC TCC TTC ATC CCA GAC GCC ATG ACT GCC ACT GAG AAA ATC

166 Leu Phe Leu Ser Ser Ile Ile Ile Pro Phe Asp Cys Leu Leu Thr Val
 597 CTC TTC CTC TCT TCC ATT ATT ATT CCC TTT GAC TGC CTC CTC ACA GTT

181 Arg Ala Leu Gly Gly Leu Lys Phe Leu Gly Arg Arg Arg Ile
 642 CGA GCA CTT GGA GGG CTG CTG CTG AAG TTC TTC GGT CGA AGA AGA ATC

196 Gly Val Glu Leu Glu Asp Tyr Asn Val Ser Val Pro Ile Leu Gly
 687 GGG GTT GAA CTG GAA GAC TAT AAT GTC AGC GTC CCC ATC CTG GGC

211 Phe Lys Lys Phe Met Leu Thr Thr His Leu Val Asn Ile Asp Gln Asp
 732 TTT AAG AAA TTT ATG TTG ACT CAT CAT CTG GTG AAC ATA GAT CAA GAC

226 Thr Tyr Ser Val Leu Gln Ile Phe Lys Ser Ser Glu Ser His Pro Ser
 777 ACT TAC AGT GTT CTA CAG ATT TTT AAG AGT GAG TCT CAC CCC TCA

241 Val Tyr Lys Val Ala Ser Gly Leu Lys Glu Gly Leu Ser Leu Phe
 822 GTG TAC AAA GTG GCC AGT GGA CTG AAG GAG GAG GGC CTC AGC CTC TTT

Fig. 19B

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256	Gly	Ile	Leu	Asn	Arg	Cys	His	Cys	Lys	Trp	Gly	Glu	Lys	Leu	Leu
867	GGA	ATC	CTC	AAC	AGA	TGC	CAC	TGT	AAG	TGG	GGA	GAG	AAG	CTG	CTC
271	Arg	Leu	Trp	Phe	Thr	Arg	Pro	Thr	His	Asp	Leu	Gly	Glu	Leu	Ser
912	AGG	CTA	TGG	TTC	ACA	CGT	CCG	ACT	CAT	GAC	CTG	GGG	GAG	CTC	AGT
286	Ser	Arg	Leu	Asp	Val	Ile	Gln	Phe	Phe	Leu	Leu	Pro	Gln	Asn	Leu
957	TCT	CGT	CTG	GAC	GTC	ATT	CAG	TTT	TTT	CTG	CTG	CCC	CAG	AAT	CTG
301	Asp	Met	Ala	Gln	Met	Leu	His	Arg	Leu	Leu	Gly	His	Ile	Lys	Asn
1002	GAC	ATG	GCT	CAG	ATG	CTG	CAT	CGG	CTC	CTG	GGT	CAC	CAC	ATC	AAG
316	Val	Pro	Leu	Ile	Leu	Lys	Arg	Met	Lys	Leu	Ser	His	Thr	Lys	Val
1047	GTG	CCT	CTG	ATT	CTG	AAA	CGC	ATG	AAG	TTG	TCC	CAC	ACC	AAG	GTC
331	Ser	Asp	Trp	Gln	Val	Leu	Tyr	Lys	Thr	Val	Tyr	Ser	Ala	Leu	Gly
1092	AGC	GAC	TGG	CAG	GTT	CTC	TAC	AAG	ACT	GTG	TAC	AGT	GCC	CTG	GGC
346	Leu	Arg	Asp	Ala	Cys	Arg	Ser	Leu	Pro	Gln	Ser	Ile	Gln	Leu	Phe
1137	CTG	AGG	GAT	GCC	TGC	CGC	TCC	CTG	CCG	CAG	TCC	ATC	CAG	CTC	TTT
361	Arg	Asp	Ile	Ala	Gln	Glu	Phe	Ser	Asp	Asp	Leu	His	His	Ile	Ala
1182	CGG	GAC	ATT	GCC	CAA	GAG	TTC	TCT	GAT	GAC	CTG	CAC	CAT	ATC	GCC
376	Ser	Leu	Ile	Gly	Lys	Val	Val	Asp	Phe	Glu	Gly	Ser	Leu	Ala	Glu
1227	AGC	CTC	ATT	GGG	AAA	GTA	GTG	GAC	TTT	GAG	GGC	AGC	CTT	GCT	GAA

Fig. 19C

391	Asn	Arg	Phe	Thr	Val	Leu	Pro	Asn	Ile	Asp	Pro	Glu	Ile	Asp	Glu
1272	AAT	CGC	TTC	ACA	GTC	CTC	CCC	AAC	ATA	GAT	CCT	GAA	ATT	GAT	GAG
406	Lys	Lys	Arg	Arg	Leu	Met	Gly	Leu	Pro	Ser	Phe	Leu	Thr	Glu	Val
11317	AAA	AAG	CGA	AGA	CTG	ATG	GGA	CTT	CCC	AGT	TTC	CTT	ACT	GAG	GTT
421	Ala	Arg	Lys	Glu	Leu	Glu	Asn	Leu	Asp	Ser	Arg	Ile	Pro	Ser	Cys
11362	GCC	CGC	AAG	GAG	CTG	GAG	AAT	CTG	GAC	TCC	CGT	ATT	CCT	TCA	TGC
436	Ser	Val	Ile	Tyr	Ile	Pro	Leu	Ile	Gly	Phe	Leu	Leu	Ser	Ile	Pro
11407	AGT	GTC	ATC	TAC	ATC	CCT	CTG	ATT	GGC	TTC	CTT	CTT	TCT	ATT	CCC
451	Arg	Leu	Pro	Ser	Met	Val	Glu	Ala	Ser	Asp	Phe	Glu	Ile	Asn	Gly
11452	CGC	CTG	CCT	TCC	ATG	GTA	GAG	GCC	AGT	GAC	TTT	GAG	ATT	AAT	GGA
466	Leu	Asp	Phe	Met	Phe	Leu	Ser	Glu	Lys	Leu	Leu	His	Tyr	Arg	Ser
11497	CTG	GAC	TTC	ATG	TTT	CTC	TCA	GAG	GAG	AAG	CTG	CAC	TAT	CGT	AGT
481	Ala	Arg	Thr	Lys	Glu	Leu	Asp	Ala	Leu	Leu	Gly	Asp	Leu	His	Cys
11542	GCC	CGA	ACC	AAG	GAG	CTG	GAT	GCA	TTG	CTG	GGG	GAC	CTG	CAC	TGC
496	Glu	Ile	Arg	Asp	Gln	Glu	Thr	Leu	Leu	Met	Tyr	Gln	Leu	Gln	Cys
11587	GAG	ATC	CGG	GAC	CAG	GAG	ACG	CTG	CTG	ATG	TAC	CAG	CTA	CAG	TGC
511	Gln	Val	Leu	Ala	Arg	Ala	Ala	Val	Leu	Thr	Arg	Val	Leu	Asp	Leu
1632	CAG	GTG	CTG	GCA	CGA	GCA	GCT	GTC	TTA	ACC	CGA	GTA	TTG	GAC	CTT

Fig. 19D

526 Ala Ser Arg Leu Asp Val Leu Leu Ala Leu Ala Ser Ala Ala Arg
 1677 GCC TCC CGC CTG GAC GTC GTC CTG CTG CTG GCT CTT GCC AGT GCT GCC CGG

541 Asp Tyr Gly Tyr Ser Arg Pro Arg Tyr Ser Pro Gln Val Leu Gly
 1722 GAC TAT GGC TAC TCA AGG CCG CGT TAC TCC CCA CAA GTC CTT GGG

556 Val Arg Ile Gln Asn Gly Arg His Pro Leu Met Glu Leu Cys Ala
 1767 GTA CGA ATC CAG AAT GGC AGA CAT CCT CTG ATG GAA CTC TGT GCC

571 Arg Thr Phe Val Pro Asn Ser Thr Glu Cys Gly Gly Asp Lys Gly
 1812 CGA ACC TTT GTG CCC AAC TCC ACA GAA TGT GGT GGG GAC AAA GGG

586 Arg Val Lys Val Ile Thr Gly Pro Asn Ser Ser Gly Lys Ser Ile
 1857 AGG GTC AAA GTC ATC ACT GGA CCC AAC TCA TCA GGG AAG AGC ATA

601 Tyr Leu Lys Gln Val Gly Leu Ile Thr Phe Met Ala Leu Val Gly
 1902 TAC CTC AAA CAG CAG GTC GGC TTTG ATC ACA TTC ATG GCC CTG GTA GGC

616 Ser Phe Val Pro Ala Glu Glu Glu Ala Glu Ile Gly Ala Val Asp Ala
 1947 AGC TTT GTG CCA GCA GAG GAG GCC GAA ATT GGG GCA GTA GAC GCC

631 Ile Phe Thr Arg Ile His Ser Cys Glu Ser Ile Ser Leu Gly Leu
 1992 ATC TTC ACA CGA ATT CAT AGC TGC GAA TCC TCC ATC TCC CTT GGC CTC

646 Ser Thr Phe Met Ile Asp Leu Asn Gln Val Ala Lys Ala Val Asn
 2037 TCC ACC TTC ATG ATC GAC CTC AAC CAG GTG GCG AAA GCA GTG AAC

Fig. 19E

661	Asn	Ala	Thr	Ala	Gln	Ser	Leu	Val	Leu	Ile	Asp	Glu	Phe	Gly	Lys
22082	AAT	GCC	ACT	GCA	CAG	TCG	CTG	GTC	CTT	ATT	GAT	GAA	TTT	GGA	AAG
676	Gly	Thr	Asn	Thr	Val	Asp	Gly	Leu	Ala	Leu	Leu	Ala	Ala	Val	Leu
22127	GGA	ACC	AAC	ACG	GTG	GAT	GGG	CTC	GCG	CTT	CTG	GCC	GCT	GTG	CTC
691	Arg	His	Trp	Leu	Ala	Arg	Gly	Pro	Thr	Cys	Pro	His	Ile	Phe	Val
22172	CGA	CAC	TGG	CTG	GCA	CGT	GGA	CCC	ACA	TGC	CCC	CAC	ATC	TTT	GTG
706	Ala	Thr	Asn	Phe	Leu	Ser	Leu	Val	Gln	Leu	Gln	Leu	Leu	Pro	Gln
22217	GCC	ACC	AAC	TTT	CTG	AGC	CTT	GTT	CAG	CTA	CAA	CTG	CTG	CCA	CAA
721	Gly	Pro	Leu	Val	Gln	Tyr	Leu	Thr	Met	Glu	Thr	Cys	Glu	Asp	Gly
22262	GGG	CCC	CTG	GTG	CAG	TAT	TTG	ACC	ATG	GAG	ACC	TGT	GAG	GAT	GGC
736	Asn	Asp	Leu	Val	Phe	Phe	Tyr	Gln	Val	Cys	Glu	Gly	Val	Ala	Lys
22307	AAC	GAT	CTT	GTC	TTC	TTC	TAT	CAG	GTT	TGC	GAA	GGT	GTT	GCG	AAG
751	Ala	Ser	His	Ala	Ser	His	Thr	Ala	Ala	Gln	Ala	Gly	Leu	Pro	Asp
22352	GCC	AGC	CAT	GCC	TCC	CAC	ACA	GCT	GCC	CAG	GCT	GGG	CTT	CCT	GAC
766	Lys	Leu	Val	Ala	Arg	Gly	Lys	Glu	Val	Ser	Asp	Leu	Ile	Arg	Ser
22397	AAG	CTT	GTG	GCT	CGT	GGC	AAG	GAG	GTC	TCA	GAC	TTG	ATC	CGC	AGT
781	Gly	Lys	Pro	Ile	Lys	Pro	Val	Lys	Asp	Leu	Leu	Lys	Lys	Asn	Gln
22442	GGA	AAA	CCC	ATC	AAG	CCT	GTC	AAG	GAT	TTG	CTA	AAG	AAG	AAC	CAA

Fig. 19F

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796 Met Glu Asn Cys Gln Thr Leu Val Asp Lys Phe Met Lys Leu Asp
2487 ATG GAA AAT TGC CAG CAG ACA TTA GTG GAT AAG TTT ATG AAA CTG GAT
811 Leu Glu Asp Pro Asn Leu Asp Leu Asn Val Phe Met Ser Gln Glu
2532 TTG GAA GAT CCT AAC CTG GAC TTG AAC GTT TTC ATG AGC CAG GAA
826 Val Leu Pro Ala Ala Thr Ser Ile Leu Stop
2577 GTG CTG CCT GCT GCC ACC AGC ATC CTC TGA GAGTCCTCCAGTGCCTC
2626 CCCAGCCTCCTGAGACTCCGGTGGCTGCCATGCCCTCTTTGTTTCTTATCTCCCTCA
2686 GACGCAGAGTTTGTAGTTTCTCACAATTCTAATGTAATAATATATCTTAA

Fig. 19G